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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/791,813	03/04/2004	Jung Hoon Seo	1630-0138P	3656	
2292	7590 01/10/2006	01/10/2006 EXAMINER			
BIRCH STE PO BOX 747	EWART KOLASCH &	MALDONAL	MALDONADO, JULIO J		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
			2823		

DATE MAILED: 01/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Antique Comments	10/791,813	SEO, JUNG HOON				
Office Action Summary	Examiner	Art Unit				
<u> </u>	Julio J. Maldonado	2823				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with th	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fr e, cause the application to become ABANDO	ON. It imply filed om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 26 C	October 2005.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims		•				
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration:						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-8</u> are subject to restriction and/or el	lection requirement.	· .				
Application Departs						
Application Papers						
9) The specification is objected to by the Examine	•					
10) The drawing(s) filed on is/are: a) acc						
Applicant may not request that any objection to the		·				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119	(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents have been received.						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	, ,,,	ved.				
Attachment(s)	🗖 .					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

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DETAILED ACTION

1. The addition of claims 4-8 in the reply filed in 10/26/2005 is acknowledged.

2. Claims 1-8 are pending in the Application.

Election/Restrictions

- 3. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-4, drawn to a method of manufacturing a semiconductor device, classified in class 438, subclass 47.
 - Claims 5-8, drawn to a semiconductor device, classified in class 257, subclass 452.
- 4. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process that does not include making at least a part of a N-semiconductor layer exposed by a mesa-cut in a vertical direction from a p-semiconductor layer to a part of the n-semiconductor layer.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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6. Because these inventions are distinct for the reasons given above and the

search required for Group I is not required for Group II, restriction for examination

purposes as indicated is proper.

Conclusion

7. Applicants are encouraged, where appropriate, to check Patent Application

Information Retrieval (PAIR) (http://portal.uspto.gov/external/portal/pair) which provides

applicants direct secure access to their own patent application status information, as

well as to general patent information publicly available.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to examiner Julio J. Maldonado whose telephone number

is (571) 272-1864. The examiner can normally be reached on Monday through Friday.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew Smith, can be reached on (571) 272-1907. The fax number for this

group is 571-273-8300. Updates can be found at

http://www.uspto.gov/web/info/2800.htm.

Julio J. Maldonado Patent Examiner Art Unit 2823

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Julio J. Maldonado January 4, 2006

George Fourson
Primary Examiner